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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/770,430	01/26/2001	Edward A. Richley	D/96604 7063 690-009683US(PAR)		
7:	590 11/06/2002				
Thomas L. Tully			EXAMINER		
Perman & Gree 425 Post Road	•		NGUYEN, JENNIFER T		
Fairfield, CT 06430			ART UNIT	PAPER NUMBER	
			2674	2	
		,	DATE MAILED: 11/06/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.		Applicant(s)	
Office Action Summary		09/770,430		RICHLEY, EDWARD A.	
		Examiner		Art Unit	
		Jennifer T Nguye		2674	
Period 1	The MAILING DATE of this communication app for Reply	ears on the cover	sheet with the c	orrespondence address	
THE - Ext afte - If th - If N - Fai - Any	HORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION.  ensions of time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period was lure to reply within the set or extended period for reply will, by statute, or reply received by the Office later than three months after the mailing med patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howe within the statutory min will apply and will expire so cause the application to	ver, may a reply be tim mum of thirty (30) days SIX (6) MONTHS from become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).	
1)[\]	Responsive to communication(s) filed on 26 J	lanuary 2001 .			
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠ Thi	is action is non-fi	nal.		
3)	closed in accordance with the practice under	ance except for fo Ex parte Quayle,	rmal matters, pr 1935 C.D. 11, 4	osecution as to the merits is 53 O.G. 213.	
•	tion of Claims				
4) ⊠	Claim(s) <u>1-3</u> is/are pending in the application.				
<b>-</b> \[	4a) Of the above claim(s) is/are withdray	vn from considera	ition.		
5)∐ ⇔⊠	· · · · · · · · · · · · · · · · · · ·	*			
6)⊠	,				
7)∐	( )				
∐(8 Applica	Claim(s) are subject to restriction and/or tion Papers	r election requirer	nent.		
9)[	The specification is objected to by the Examiner	r.			
	The drawing(s) filed on is/are: a)□ accep		ed to by the Exar	niner.	
	Applicant may not request that any objection to the				
11)	The proposed drawing correction filed on				
	If approved, corrected drawings are required in rep	ly to this Office act	ion.		
12)	The oath or declaration is objected to by the Exa	aminer.			
Priority	under 35 U.S.C. §§ 119 and 120				
13)	Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. § 119(a)	)-(d) or (f).	
а	)□ All b)□ Some * c)□ None of:				
	1. Certified copies of the priority documents	s have been recei	ved.		
	2. Certified copies of the priority documents	s have been rece	ved in Application	on No	
*	3. Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the control of the certified copies of the prior application for a list of the certified copies of the prior application for a list of the certified copies of the prior application for a list of the certified copies of the prior application from the prior app	reau (PCT Rule 1	7.2(a)).	· ·	
	Acknowledgment is made of a claim for domestic				
	<ul> <li>a) The translation of the foreign language prof Acknowledgment is made of a claim for domesting</li> </ul>	visional application	on has been rece	eived.	
ااری Attachme		c priority under 3:	o.o.o. 39 120	and/01 121.	
1) 🔯 Noti 2) 🔲 Noti	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲		(PTO-413) Paper No(s) Patent Application (PTO-152)	

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

- 1. Claims 1-3 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 2. Claims 1-3 recites the limitation "the wall" in "the wall of said cavities". There is insufficient antecedent basis for this limitation in the claim.

### Claim Rejections - 35 USC § 102

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Crowley et al. (U.S. Patent No. 5,262,098).

Regarding claim 1, referring to Figs.1A, 1B and 2, Crowley teaches an addressable display device comprising: a light transparent support body containing a plurality of anisontropic particles (10) contained within dielectric liquid-filled cavities (12) thereof, the walls of said cavities having a higher dielectric constant than that of said dielectric fluid (16); a parallel pair of electrical conductors (22, 24), one on each surface of said support body and at least one of which is light transparent; each of said anisotropic particles (10) of the support body having dissimilar sections (18, 20) of contrasting optical appearance and electrical conductivity, one section having an anisotropy for inducing a dipole moment which renders said section electrically-responsive; said dielectric liquid (16) containing an ionazable charge director material which, under application of an electric field between said electrical conductors (22, 24), forms mobile ions of opposite charge which move within said liquid towards the cavity wall adjacent the electrical

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conductor of opposite polarity, said mobile ions inducing said dipole moment and rotating said particles so that the one section thereof faces the electrical conductor of opposite polarity each time the polarity between said conductors is reversed (col. 1, lines 26-67 and col. 2, lines 1-28).

Regarding claim 2, Crowley teaches the particles require the application of an electric field of a predetermined magnitude or threshold to the electrodes to cause the particles to release from attraction to one electrode and to rotate and face the other electrode (col. 1, lines 26-67 and col. 2, lines 1-28).

Regarding claim 3, Crowley further teaches particles are bichromal balls and said sections are hemispheres (Figs. 1A, 1B and 2, col. 1, lines 26-67 and col. 2, lines 1-28).

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Sheridon (U.S. Patent No. 4,143,103) teaches method of making a twisting ball panel display.

Sheridon (U.S. Patent No. 4,126,854) teaches twisting ball panel display.

Richley (U.S. Patent No. 5,900,192) teaches method and apparatus for fabricating vary small two-color balls for a twisting ball display.

Sheridon et al. (U.S. Patent No. 6,428,868) teaches twisting-cylinder display.

Sheridon (U.S. Patent No. 6,441,946) teaches swollen gyricon display and method of making the same.

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#### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Jennifer T. Nguyen** whose telephone number is **703-305-3225**. The examiner can normally be reached on Mon-Fri from 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard A Hjerpe** can be reach at **703-305-4709**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, DC. 20231

Or faxed to: 703-872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, sixth-floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is 703-306-0377.

Jennifer T. Nguyen Patent examiner Art Unit 2674

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